

From boatanchors@theporch.com Fri Apr 12 14:56:36 1996
From: Duncan Cadd <dcadd@luc.ac.be>
Subject: 88mH toroids
Message-ID: <9604120937.AA04556@alpha.luc.ac.be>

Greetings, Folks, from a dull Diepenbeek in N.E. Belgium !

AFAIK there are two sources for these. The original is W3NQN Ed Wetherhold whose simple passive CW filters use these thingies, try contacting him direct:

Ed Wetherhold W3NQN,
1426 Catlyn Pl,
Annapolis MD,
21401-4208

The other source is the G-QRP Club in the UK, which sells stacks of five toroids, contact:

Ian Wye G00KY,
New House,
Hook Road,
Amcotts,
nr Scunthorpe,
DN17 4AZ
England

72/3,

Duncan ON9CHU / G0UTY G-QRP 8117 dcadd@luc.ac.be

From boatanchors@theporch.com Fri Apr 12 14:56:36 1996
From: jlivingston@cix.compulink.co.uk (John Livingston)
Subject: == No Subject ==
Message-ID: <memo.415631@cix.compulink.co.uk>

>While digging through the junque box this past weekend, I ran across
>the following tubes. Does anyone have specs on these or their U.S.
>equivalents?

> 12E14
> CV428
> CV4004
> CV4060

> EL360

> Thanks & 73, Barry WA4VZQ ornitz@eastman.com

The equivalents for your valves - sorry - toobs are :

CV428 - 5B/254M - This is an 807 power tetrode in a loktal package, and was produced by ST&C in the UK. It is a superb tube, with the benefits of the 807 without most of the disadvantages. I have the makers specification booklet somewhere - mail me if you need more info.

CV4004 - 6057 or 12AX7 or M8137 or ECC83 - double triode with separate cathodes.

CV4060 - S11E2 - never heard of it, no other info.

EL360 - 5830 or EL36 - Power pentode as far as I can remember. Probably audio.

12E14 - no trace anywhere. Are you sure it's not a 12E1C ? That is a series regulator tetrode.

Those tubes together sound like a spares kit for a high voltage regulated power supply. I used to maintain these things on microwave systems, and they supplied the voltages to klystrons and travelling wave tubes.

John Livingston jlivingston@cix.compulink.co.uk
G4FDD G-QRP 431
+44(0)1904 794305 FAX +44(0)1904 657778

From boatanchors@theporch.com Fri Apr 12 14:56:36 1996
From: ad184@rgfn.epcc.Edu (Dale N Richardson)
Subject: An/URC-32
Message-ID: <9604121503.AA24801@rgfn.epcc.Edu>

The URC-32 is a 2-30 MHz transceiver, 500w output, capable of ssb, cw, and rtty. It had 2 types of antenna couplers. The AN/SRA-22 coupler was mounted at the base of a 35 ft whip and was remote controlled. Be careful with this one as it has beryllium inside. The other was a simple l type tuner usually mounted above the urc-32 called a CU-737. I went to school on these things in 1965 or 66. The transceivers were pretty good for most purposes but became a little unstable when you mounted a Browning M2 about a foot away. Dont have a book. Hope this helps.

Dale AA5XE

--

Dale N. Richardson

From boatanchors@theporch.com Fri Apr 12 14:56:36 1996
From: Ken_Warren@bsd.beavton.k12.or.us (Ken Warren)
Subject: AN/URC-32
Message-ID: <1155010.ensmtp@bsd.beavton.k12.or.us>

If i'm correct in my thinking the Air Force designation for that equipment was KWT-6. A 7 foot rack full of nice transceiver by Collins. I also went to school on these back in the late 60's. I think I have a manual around here somewhere if you still need a copy of the manual tuner. I don't think the autotuner was included in my manual.

Ken Warren K7RPX

KEN_WARREN@BSD.BEAVTON.K12.OR.US

--

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Beaverton School District
beavton.k12.or.us

From boatanchors@theporch.com Fri Apr 12 14:56:36 1996
From: "basalop" <basalop@eskimo.com>
Subject: BA's Heard
Message-ID: <199604120734.AAA07273@mail.eskimo.com>

Hi BA fans,

While doing a half dozen other things I really did not want to do, I turned on my temporary ricebox receiver and took a listen around the BA QRG. Now this report is coming to you from near Seattle, Washington. Things were probably alot different from the other side of the country. On 40 I heard W5TVW for a few moments. Signal was good while it lasted but band pretty soggy. Later on I listened on 3579.545 and heard a few signals from "back there". None strong enough to even get the full calls. KI6ZX was calling CQ off and all over a couple hour period but I don't think anyone could hear him on the east coast. I sure wish I had a TX up and running. My bubble colorburst when my wife turned on the TV. Boy it was nice to hear

some signals with "character".

73 Jim K7SLI (basalop@eskimo.com) Marysville, Wa

From boatanchors@theporch.com Fri Apr 12 14:56:36 1996
From: christopher.demeroukas@accessil.com
Subject: Bridges
Message-ID: <9604121410.0JX3I01@accessil.com>

Hello BAers:

Based on recent availability, would Dayton be a good place to try and find an old (hopefully working) RLC Bridge at a decent price (e.g. General Radio 1650A or 1650B, or HP 4260A), or is a \$150 bridge available from an electronics surplus house comparable to something I might find at Dayton? Thanks.

Chris

christopher.demeroukas@accessil.com

From boatanchors@theporch.com Fri Apr 12 14:56:36 1996
From: drhydro@ames.net (Paul Nelson)
Subject: Bristol spline wrenches- good source
Message-ID: <v01540a00ad93b2b9216b@[1.1.1.1]>

The recent thread on Bristol splines caused me to look up a post I made in late December- Ray Mote also posted on this subject, about the same time- and I thought that this info might save some folks money. The Excelite tools are certainly excellent (!) but costly. These from McMaster-Carr are standard L-shaped things, look like allen wrenches, and are cheap enough to be affordable!

In December, I wrote:

I bought some from them (McMaster-Carr) this summer, and they've got all the sizes you'd ever want. Here's the same list that was posted several weeks ago, but with current prices (I think) and whether they're four- or six-flute. They call 'em Spline L-keys. They have both short-arm and long-arm types, and drivers, and

insert bits, and lots of other stuff.

For those not familiar with McMaster-Carr, this info was on page 2183 of their catalog. LOTS of other stuff.

Phone: 708-833-0300. They take plastic.

DIA.	FLUTES	CAT NO	PRICE
.033	4 +	7048A11	0.70 #
.048	4 +	7048A12	0.60 #
.048	6 *	7048A13	0.58 #
.060	6 *	7048A14	0.60 #
.069	4 +	7048A15	0.58 #
.072	6 *	7048A17	0.53 #
.076	4 +	7048A16	0.55 #
.096	6 *	7048A18	0.53 #
.111	6 *	7048A19	0.55 #
.133	6 *	7048A21	0.83
.145	6 *	7048A22	0.88
.168	6 *	7048A23	0.98
.183	6 *	7048A24	0.98
.216	6 *	7048A25	1.15
.251	6 *	7048A41	1.88
.291	6 *	7048A42	3.10
.372	6 *	7048A43	4.55
.454	6 *	7048A44	8.65
.595	6 *	7048A45	13.75

Those marked # are included in a set of 9 short-arm wrenches, Cat.No. 7048A54, for \$6.40. There are more sets. This one looked best to me.

Paul Nelson
Ames, Iowa

"When I go, I want to go quietly, in my
sleep, like my grandfather- not
screaming, like his passengers."

(DrHydro@ames.net)

From boatanchors@theporch.com Fri Apr 12 14:56:36 1996
From: knudsen@gvmail.ih.att.com
Subject: Re: Bristol spline wrenches- good source
Message-ID: <9604121625.AA00725@bock.ih.att.com>

Thanks to that posting back then from Paul, or maybe someone else,
I did call McMaster-Carr and order a set of Bristol splines.
I bought a set, rather than the one needed for R390A, just to be sure.
They took VISA number right over the phone and have no minimum order --

in five minutes you can have your set on the way to you.

The set comes in a little plastic pouch and they are pretty cheap looking, just L-shaped like Allens, but they do work. The smallest one in the set I got is the R390A fits-all size. Sooner or later I'll find a use for the rest of them. 73, mike k aa9rg

From boatanchors@theporch.com Fri Apr 12 14:56:36 1996
From: Paul Thekan <Paul.Thekan@pgtp.varian.com>
Subject: Eimac Binder Reminder
Message-ID: <2.2.16.19960412120151.1d8f54da@pgtp.varian.com>

Those attending the Foothill Swap meet on Saturday and still want to pick up a binder ,meet me at the hotdog / coffee stand at 9 am. I will have a black cap on and a binder in one hand.Hope to see you there . The WX should be nice.

73
Paul N6FEG

Paul Thekan - Speaking for Himself
Paul.Thekan@pgtp.varian.com

From boatanchors@theporch.com Fri Apr 12 14:56:36 1996
From: aculbert@pps1-po.phyp.uiowa.edu
Subject: FS: HARVEY WELLS TBS-50
Message-ID: <199604121826.NAA12424@ns-mx.uiowa.edu>

FOR SALE: Harvey Wells TBS-50, 80 - 2 meter AM & CW transmitter (1950 vintage +/-). Class B modulation with P-P 6L6 to a single 807 PA. Unit has the speech amplifier to allow use of high impedance microphone. All correct knobs, correct meter and original frequency card in the front panel holder. Front panel is in excellent condition BUT.... a jeweled pilot lamp has been added. Visual inspection shows deteriorated wiring and accumulated gunk on the variable capacitors in the final, so unit is UNTESTED. The unit requires an external power supply that is NOT included. \$75 includes manual copy plus shipping from Iowa.

I had been looking forever to get the matching VFO and I had to buy the transmitter to get the VFO!

Al, K0AL

allan-culbert@uiowa.edu

From boatanchors@theporch.com Fri Apr 12 14:56:36 1996
From: Karan Lee Carruth <klccarru@tenet.edu>
Subject: FS: WW-II books
Message-ID: <Pine.OSF.3.91.960412105722.15981A-100000@beall.tenet.edu>

To all who replied: Please be patient - I will get the list to each of you as soon as I can get it typed. It will probably be later next week.

I wasn't even sure I would get any replies! Silly, huh? This place is amazing!

Thanks,

Lenox Carruth
klccarru@tenet.edu

From boatanchors@theporch.com Fri Apr 12 14:56:36 1996
From: Terry Burge <terrybu@netman.ENS.TEK.COM>
Subject: Re: FT/FS Stuff
Message-ID: <9604121540.AA08259@netman.ENS.TEK.COM>

Don,

You don't have the speaker to go with my SX-62A do you?

Terry
KI7M

From boatanchors@theporch.com Fri Apr 12 14:56:36 1996
From: Albert S Woodhull <aswNS@hamp.hampshire.edu>
Subject: Hewlett Packard
Message-ID: <Pine.SUN.3.91.960412081634.22314A-100000@hamp>

"F r6fqHo!ht" <75121.100@CompuServe.COM> wrote to the Boatanchors list:

> I would like to find a manual for a Hewlett Packard VHF Detector Model 417A.
> Range is from 10 to 500 Mhz. Anyone have a book so I can get this thing
> working, I'd be thankful, even purchase a copy!! <g>

I made the same query a week or two ago and got one nibble from someone who said he thought he had a copy of the manual. But I am still looking.

If I come up with it I'll get back to you. Will you get in touch with me if you find one? Thanks. Meanwhile, in the absence of a manual I would like to hear from anyone in the group who has experience with one of these things, or knows their history, or knows what is inside the sealed r.f. compartment and has any hints on opening it.

73, Al N1AW

--

Al Woodhull
awoodhull@hampshire.edu
n1aw@k1mea.#wma.ma.usa.na
n1aw@ka1jy.ampr.org

From boatanchors@theporch.com Fri Apr 12 14:56:36 1996
From: "F r6fqHo!ht" <75121.100@CompuServe.COM>
Subject: ID please!!
Message-ID: <960412031048_75121.100_FHI32-6@CompuServe.COM>

Just ran across a list I made a few months ago wanting to ask the collective wisdom a question. Saw a message about RTTY and that tweaked my memory. Is the following piece of gear, module or unit a converter? It's labeled CV483/URA-17.

I seem to remember that it has a small scope in the center, and about 5 switches.

Anyone have a way to look this up or remember the nomenclature??

If no one has any info, I will go to the storage location and dig them out. I seem to remember that I have 3 of them and will write down the switch names, etc.

Thanks in advance
Regards from Honolulu,
Raymond J. Cote

From boatanchors@theporch.com Fri Apr 12 14:56:36 1996
From: KC5IJD@aol.com
Subject: Re: ID please!!
Message-ID: <960412084803_189715896@emout08.mail.aol.com>

>It's labeled CV483/URA-17.

This is a RTTY converter. It is basically a transistorized CV-89.

73

Joseph Pinner +
Lafayette, LA
KC5IJD
kc5ijd@aol.com

From boatanchors@theporch.com Fri Apr 12 14:56:36 1996
From: "Integration Area" <integrat@usr.com>
Subject: Lead conduit
Message-ID: <9603128293.AA829323534@robogate.usr.com>

Does anyone sell single wire lead conduit anymore? It was commonly used in old Navy equipment, and is likely to be missing - probably melted down to make bullets.

William Donzelli
integrat@usr.com

From boatanchors@theporch.com Fri Apr 12 14:56:36 1996
From: Rick Blank <rblank@legend.txdirect.net>
Subject: Mil HF Spectrum Analyzer Info Needed
Message-ID: <1.5.4b12.32.19960412035249.006bb2bc@txdirect.net>

A buddy of mine just gave me a working TS1379/U analyzer tonight and I am wondering if anyone on the list is familiar with this beast...

I don't know if it's solid state or hollow-state, it does have at least a CRT in it so there is some vacuum in it, and it's still out in the Jeep, at least until tomorrow when the YL is gone to work and I can put it in the garage without her seeing me do it ;^))she leaves for work a lot earlier than me and this is one way to get stuff inside!

The unit is complete in it's shipping case, it looks like it may be a standard rack size (I hope!) and would really look cool if I can sneak another equipment rack into this 10X10 room....

I also have no paperwork on this unit, so, any help or info is definately appreciated!

CUL

Rick Blank, KI5SL
2223 Blanco Road
San Antonio, Texas 78212

rblank@txdirect.net
KI5SL@K3WGF.STX.USA.NOAM
AMSAT NA#26195

From boatanchors@theporch.com Fri Apr 12 14:56:36 1996
From: "D.D. Todd" <dube3@n-link.com>
Subject: Motorola plugs
Message-ID: <316DEB3F.5E06@mail.n-link.com>

Dick, W1KSZ wrote:

>
> Restoration of the Gonset Twins progressing nicely, but need
> patch cable to go from XMTR to RCVR. Uses those plugs that
> Motorola used in Land Mobile radios, also used for car radio
> antenna input. Sort of look like RCA Phono plug on steroids.
> Anyone have a 2-3 foot cable or 2 or 3 of those plugs ?? I
> can make the cable.
> Check out the nearest auto junk (salvage) (wrecking) yard. You may even
find some of the old antennas lying around there that have those plugs on them.
Buy 2
of 'em. Should be real cheap. Or, ask if you can pull 'em yourself; in which
case you
take your dykes and just snip off a couple feet of the cable on at least one of
them.
Remove the plug from the other short piece of cable and attach it to the longer
one.
Voila!

Good junking!

73,
Dube AB5AP dube3@n-link.com

From boatanchors@theporch.com Fri Apr 12 14:56:36 1996
From: stever@cybercomm.net (Stephan Rashkin)
Subject: Re: Motorola plugs
Message-ID: <199604121604.MAA11769@raven.cybercomm.net>

>Dick, W1KSZ wrote:
>
>>
>> Restoration of the Gonset Twins progressing nicely, but need

>> patch cable to go from XMTR to RCVR. Uses those plugs that
>> Motorola used in Land Mobile radios, also used for car radio
>> antenna input. Sort of look like RCA Phono plug on steroids.

These type plugs are also available from Radio Shack..
stock # 274-709 solderless \$1.59, and #274-711 solder type
pkg of 2 for \$1.19. (page 80 of '96 catalog)..

73,
Steve, WA2NHZ

Looking for: 1. Hallicrafters SX100

Steve Rashkin, WA2NHZ
Howell, New Jersey

E-mail: stever@raven.cybercom.com

From boatanchors@theporch.com Fri Apr 12 14:56:36 1996
From: berg stephen erik <z931086@corn.cso.niu.edu>
Subject: need manual
Message-ID: <Pine.3.89.9604120010.A18921-01000000@corn.cso.niu.edu>

Thanks to the generosity of a fellow BA listmember I have a new toy to
work on. Actually, just about everything I own needs to be worked on.
(sigh) Anyway, I am the proud owner of a Clegg 22er Mk II. I never knew
these existed. I need to get a manual for it. Does anyone on the List
have one or a copy of one? I would be glad to oblige with copying and
mailing costs. I am hoping to get it working so we can repopulate 2
meter AM locally. It appears to be a rather nice unit, and should be
lots of fun to use.

73,
Steve WA9JML

z931086@corn.cso.niu.edu

From boatanchors@theporch.com Fri Apr 12 14:56:36 1996
From: jmillier@teleteam.com (Jay H. Miller)
Subject: RTTY Info Landslide
Message-ID: <v01510100ad93f0788202@[205.198.110.25]>

A big THANK YOU to all the gang that responded to my RTTY info request.
There were at least a dozen responses and I'm still trying to get back to each of you.

For the benefit of the rest of the list, it appears RTTY is still alive on HF but for the most part on the ham bands only. No more news wires in the USA. I'm still trying to locate an up-to-date list of RTTY frequencies and will probably make that my main decision point as to proceeding with the project.

I even had a few offers for FREE stuff.

We will keep the list posted on future developments.

73

***** ##### *****
Jay H. Miller, KK5IM Dallas, Texas
The Pocket Guide to Collins Amateur Radio Equipment
jmillier@teleteam.com
***** ##### *****

From boatanchors@theporch.com Fri Apr 12 14:56:36 1996
From: "Pulhamus, William R" <wrp@rfpo1.rfc.comm.harris.com>
Subject: Scott T connection for 2 to 3 phase
Message-ID: <316E5927@smtpgate.rfc.comm.harris.com>

I believe the second transformer is 1 to 1.73

Bill
wrp@rfpo1.rfc.comm.harris.com

From boatanchors@theporch.com Fri Apr 12 14:56:36 1996
From: stever@cybercomm.net (Stephan Rashkin)
Subject: SX-62(x) BFO's ???
Message-ID: <199604121549.LAA10766@raven.cybercomm.net>

Was there any conclusion as to which models of the SX62 had a BFO and which didn't??

How about the calibrator? Was that the only use for the BFO (if it had one)..

Did any 62 models have a bandspread?

73,
Steve, WA2NHZ

Looking for: 1. Hallicrafters SX100

Steve Rashkin, WA2NHZ
Howell, New Jersey

E-mail: stever@raven.cybercom.com

From boatanchors@theporch.com Fri Apr 12 14:56:36 1996
From: Al Klase <alklase@postoffice.ptd.net>
Subject: Re: SX-62(x) BFO's ???
Message-ID: <199604121718.NAA14013@ns1.ptd.net>

At 11:21 AM 4/12/96 -0500, Steve Rashkin wrote:
>Was there any conclusion as to which models of
>the SX62 had a BFO and which didn't??
>
>How about the calibrator? Was that the only use for
>the BFO (if it had one)..
>
>Did any 62 models have a bandspread?

My SX-62A has both a BFO and a calibrator. The dial pointer can be adjusted to "zero beat" to the calibrator with the BFO on. The 62's (at least the 62 and 62A) have the full compliment of selectivity positions "a la" the ham-oriented SX-42, so CW use is possible. However the lack of band-spread tuning makes this less than useful.

73,
Al Klase - N3FRQ
alklase@postoffice.ptd.net
Flemington, NJ

From boatanchors@theporch.com Fri Apr 12 14:56:36 1996
From: Bill Meara <w.meara@server1.codetel.net.do>
Subject: SX28 Man.- The Winner is....
Message-ID: <9604121053.AA05022@server1.codetel.net.do>

Anchorologists:

I received an overwhelming response to my offer of a semi-free SX-28-A Manual. The response was so strong that I was briefly tempted to quit my day job and go full time into the SX-28-A Manual business!

I received heart wrenching pleas from around the country. Lots of inducements were offered. Old QSTs, money, first born children... you name it! Some of the offers were probably borderline violations of the Foreign Corrupt Practices Act! Don't worry, in the spirit of good ham fellowship, I will not be contacting the Justice Department.

The responses created a dilemma. On the one hand, I would like to be able to help out all my needy ham friends who desperately need the manual - and I would like to get all the great stuff they offered! On the other hand, it is very difficult here to get documents copied. We don't have any of those handy "E-Z Copy Centers". We have only "Diffi - Copy Centers"! So I won't be able to burn all of the copies needed to satisfy list demand and I will have to forego all of the offered loot.

I decided to make my selection based on who was quickest in responding. Al Evangelista shot back a response one hour and 59 minutes after my posting. Congratulations Al! Early to bed, Early to rise... Gets you an SX-28-A manual. Please send me your address.

For all those who desperately need copies of this manual, perhaps you could induce a list member WHO WILL SOON HAVE ONE (hint, hint) to get some copies made....

73 De N2CQR/HI8
Bill Meara
Santo Domingo, Dominican Republic
w.meara@codetel.net.do
or
74537.1100@compuserve.com

"Hispaniola Heaths and Hallis"
HT-37, 2B, HW-101, HQ-100
PGP PUBLIC KEY AVAILABLE ON REQUEST

From boatanchors@theporch.com Fri Apr 12 14:56:36 1996
From: w7ni@teleport.com (Stan Griffiths)

Subject: Re: Tek Probes

Message-ID: <199604120700.AAA02133@desiree.teleport.com>

>To: Griffiths, Stan

>From: Scutch-EFS003 Frank on Wed, Apr 10, 1996 4:24 PM

>Subject: Tek Probes

>

>Stan:

>

>Sorry to keep bugging the heck out of you but I don't know of anyone with
>you knowledge on the subject.

No problem, Frank, as long as you can put up with my sometimes delayed
responses! I get a LOT of Email and post office mail, too.

>I was talking with Hank about "probes" and he mentioned that I'll need a
>probe for my 310A with a compensation of up to 40pF. I notice Digikey sells
>a STACK probe with a compensation range of 40-45pf, load cap of 22pF, 60Mhz
>bandwidth and switchable between 1X and 10X attn.

The Stack probe sounds like it meets the basic requirements from their
description of the specs.

>Do you know of STACK and

>what do you think of them? I think the probe will be around \$45 with all
>the accessories. Good deal or no?

Unfortunately, I don't know Stack at all. Again, the price of \$45 is good
for what they are describing.

>Frank

Hank said:

>I don't know if I've ever tried the P6105 on my 310. Question is
>whether it will compensate up to 40 pf., which is the 310 input
>capacitance.

Stan says:

I dug out my 310A last night and tried a P6105 on it. Works good.

Hank again:

>The 6105's I have I got from Stan in some trading a while back. Other
>than that, I've been using the Mouser probes. They will just barely
>compensate on a 310. As to where to find Tek probes, unless you are
>buying new ones (big \$\$), I don't have any sources.

>--

>*****
>Hank van Cleef vancleef@bga.com vancleef@tmn.com
>*****

Stan says:

Here are a few words on probes, in general.

There are two common types of probes (and several uncommon types) found in use with scopes: an X1 (times one) probe and an X10 (times ten) attenuator probe.

X1 Probes: This is really just a fancy piece of coax cable with a connector on one end to connect to the scope input and a convenient tip on the other end for holding in your hand, grounding to the piece of equipment you are testing, usually with a short wire and an alligator clip, and a pointed end for hooking the probe to the point you want to get a signal from. There are no adjustments for these probes. The question is, since X1 probes are cheaper than X10 and easy to use, why wouldn't you ALWAYS use an X1 probe?

There are a few answers: X1 probes load the circuit you are testing much more than an X10 probe both with resistance and capacitance. If the circuit can stand the loading of the probe and scope input circuitry without changing its performance, there is little reason to use an X10 probe other than possibly to keep the DC and AC voltage of the circuit under test from exceeding the input limits of the scope you are using.

X10 probes: These probes actually form a "divide by 10" frequency compensated voltage divider when used with the correct input resistance and capacitance provided by the scope input circuitry. Most scope inputs have an input resistance of 1 megohm to ground. If you place a 9 megohm resistor between the scope input and the circuit you are testing, you form a X10 divider with the two resistors. There is also some capacity from the scope input to ground and you have to adjust a variable capacitor in the probe to "compensate" it. The scope input capacity is somewhere between 10 and 40 picofarads, depending upon what model of scope we are talking about. A X10 probe has to have a variable capacitor in it with a large enough range to compensate for the scope input capacity. The P6105 has enough range to compensate to a 310A input.

The process of "compensating the probe" involves connecting the X10 probe to the scope input and applying a signal to the probe tip that contains both low and high frequencies. The squarewave calibrator built into most scopes is ideal for this use and this is not a coincidence. You then adjust the compensation capacitor on the probe so the display of squarewaves from the scope calibrator looks "square", ie: not spiked up or rolled off on the leading edge. Try it and I think it will become obvious.

Most probes are either X1 or X10. A few are switchable from one to the other and that can be an advantage. The P6105 is X10 only and if you want an X1 probe, a P6027 or P6028 are good choices for the 310 or 310A.

Over the years, I have seen a lot of non-Tek probes and most of them were pure junk. Sometimes the problems are mechanical. The environment a probe lives in is a rough one and a probe has to be tough to survive it. Most of the time, the problem with non-Tek attenuator probes was more subtle and you could not detect it without some special test equipment, specifically, a fast rise squarewave generator with enough amplitude to put several divisions of signal on the screen. How the probe reacts to a rather high amplitude, fast rise square wave is the probe's acid test. A good probe will show no spikes or ringing (damped sinewaves) on the leading edge and will have a risetime much faster than the scope itself. You need a good scope and a good generator to test a probe for this. If I had a Stack probe here, I could tell you in five minutes if I like it or not. Most of their customers will have no idea of how to tell whether it is a good probe or not. This limits the value of customer testimonials . . .

I still have some P6105 probes I can sell. I want \$25 each plus \$5 for shipping up to 3 of them. Let me know if you want one.

I posted this discussion to the BA net because I think there is enough general interest in scope probes.

Stan w7ni@teleport.com

From boatanchors@theporch.com Fri Apr 12 14:56:36 1996
From: knudsen@gvmail.ih.att.com
Subject: Re: Tek Probes
Message-ID: <9604121641.AA00737@bock.ih.att.com>

Let me follow up Stan's excellent posting with a warning:
A faulty scope probe can really mislead you into wasting hours of time and maybe replacing perfectly good components in the unit you're troubleshooting.

Probes sometimes open up internally and the signal you see is capacitively coupled across the break. It looks like the right signal, only distorted, and so it's easy to believe that the circuit under test is messing up in that way.

Adjusting your probe's compensation, as Stan described, is a good way to insure that a probe is working right. If it's open, it will always look overcompensated, rolling off the low freqs. Or just generally look terrible on the known good square wave.

But a probe that compensates well may open up again as you swing it over to the circuit under test, if the fault is intermittent.

So if you don't like what you see, get a "second opinion" by subbing another probe. On a dual-trace scope you probably have another one anyway, and can swap probes or switch to the other channel.

At Bell Labs I developed the habit of tossing into the trash can any probe that screwed me over at the lab bench -- after dyking it in half to make sure a good scrounger like me didn't take it home! But if you have several identical probes, you can swap parts around and make good ones. The probes unscrew in several places, including some you probably don't want to without breaking the insides.

Switchable 1X/10X probes are nice but that switch develops intermittents after a while. For most BA work, a 10X is all you'll need.
73, mike k aa9rg

From boatanchors@theporch.com Fri Apr 12 14:56:36 1996
From: "F r6fqHo!ht" <75121.100@CompuServe.COM>
Subject: URC-32 or SRT-13 transmitters
Message-ID: <960412030950_75121.100_FHI32-1@CompuServe.COM>

Since the BA group has so much wisdom and the knowledge is deep, I thought I'd ask for any information on the above transmitters.

The URC-32 is a full 19" rack and so is the SRT-13. The 2 transmitters are not clear in my mind as it's been 20 years since I've seen them. I, never the less, have 5 antenna couplers from one of their systems and I don't have an ID label from the couplers to be able to find documentation. Does anyone have a clue or better yet, info on either transmitter? A manual would be nice, as one could look up the coupler data, picture or coupler part number. I would like to be able to get an idea what the coupler looks like for each set. Then I would be able to track down the coupler information.

Regards from Honolulu,
Raymond J. Cote

From boatanchors@theporch.com Fri Apr 12 14:56:36 1996
From: John Kolb <jlkolb@cts.com>
Subject: Variable caps
Message-ID: <Pine.SC0.3.91.960411222127.25504E-100000@sd.cts.com>

Finally started repairs on a Boonton model 160 Q-Meter from

the swapmeet. Seller said it was working, of course.
After replacing a leaky cap that caused the "Q" meter to read at least half scale, I find the variable cap which resonates the coil under test is shorted for half it's rotation. Well, at least the thermocouple IS good.

I've been going crazy trying to adjust this beast - anyone have any neat tricks? Stator has two sections, but both joined on a common bar at each end, screwed to mica insulators. So either side can be adjusted separately. Both ends of the rotor have ball bearing whith screw and locknut adjustment. (Rotated by gear inside of frame)

Tried adjusting with stator firmly against rotor, then shifting rotor sideways with end adjustments, but that didn't work either. Must have had some tilt to the stator.

Anyone have a 160 schematic?

John Kolb KK6IL jlkolb@cts.com